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ATGGAATCACAGACTCTGGTCTTCATATCCATACTGCTCTGGTTATATGGTGCTGATGGG  
 M E S Q T L V F I S I L L W L Y G A D G  
 AACATTGTTATGACCCAATCTCCAAATCCATGTACGTGTCATAGGAGAGAGGGTCACC  
N I V M T Q S P K S M Y V S I G E R V T  
 TTGAGCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAACAGAAACCA  
 L S C K A S E N V D T Y V S W Y Q Q K P  
 GAGCAGTCTCCTAAACTGCTGATATATGGGGCATCCAACCGGTACACTGGGTCCCCGAT  
 E Q S P K L L I Y G A S N R Y T G V P D  
 CGCTTCACGGGCAGTGGATCTGCAACAGATTCACTCTGACCATCAGCAGTGTGCAGGCT  
 R F T G S G S A T D F T L T I S S V Q A  
 GAAGACCTTGCAGATTATCACTGTGGACAGAGTTACAACATCCATTACGTTGGCTCG  
 E D L A D Y H C G Q S Y N Y P F T F G S  
 GGGACAAAGTTGGAAATAAG  
 G T K L E I K

FIG. 1A

ATGGGATGGAGCTGTATCATCCTCTTGGTAGCAACAGCTACAGGTGTCTCTCCCAG  
 M G W S C I I L F L V A T A T G V L S Q  
 GTCCAAGTGCAGCAGCCTGGGCTGACCTGTGATGCCCTGGGCTCCAGTGAAGCTGTCC  
 V Q L Q Q P G A D L V M P G A P V K L S  
 TGCTTGGCTTCTGGCTACATCTCACCAAGCTCCTGGATAAAACTGGGTGAAGCAGAGGCCT  
 C L A S G Y I F T S S W I N W V K Q R P  
 GGACGAGGCCTCGAGTGGATTGGAAGGATTGATCCTCCGATGGTGAAGTTCACTACAAT  
 G R G L E W I G R I D P S D G E V H Y N  
 CAAGATTCAAGGACAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTACATC  
Q D F K D K A T L T V D K S S S T A Y I  
 CAACTCAACAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCTAGAGGATTCTG  
 Q L N S L T S E D S A V Y Y C A R G F L  
 CCCTGGTTGCTGACTGGGCAAGGGACTCTGGTCACTGTCTCTGCA  
P W F A D W G Q G T L V T V S A

FIG. 1B

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ATGGAGACCGATAACCCTCCTGCTATGGGTCTCCTGCTATGGGTCCCAGGATCAACCGGA  
M E T D T L L W V L L L W V P G S T G  
  
GATATTCA~~G~~ATGACCCAGTCTCCGTCGACCC~~T~~CTCTGCTAGCGTCGGGATAGGGTCACC  
D I Q M T Q S P S T L S A S V G D R V T  
  
ATAACCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAGCAGAACCCA  
I T C K A S E N V D T Y V S W Y Q Q K P  
  
GGCAAAGCTCCCAAGCTTCTAATTATGGGCATCCAACCGGTACACTGGGTACCTTCA  
G K A P K L L I Y G A S N R Y T G V P S  
  
CGCTTCAGTGGCAGTGGATCTGGACCGATTTCACCC~~T~~CACAATCAGCTCTGCAGCCA  
R F S G S G S G T D F T L T I S S L Q P  
  
GATGATTTGCCACTTATTACTGCGGACAGAGTTACA~~A~~CTATCCATTACGTTGGTCAG  
D D F A T Y Y C G Q S Y N Y P F T F G Q  
  
GGGACCAAGGTGGAGGTCAAACGT  
G T K V E V K R

FIG. 2A

ATGGGATGGAGCTGGATCTTCTCTCCTGTCAGGTACCGCGGGCGTGCAC~~T~~TCAG  
M G W S W I F L F L L S G T A G V H S Q  
  
GTCCAGCTGTCCAGTCTGGGCTGA~~A~~CTCAAGAAACCTGGAGCTCCGTGAAGGTCTCC  
V Q L V Q S G A E L K K P G S S V K V S  
  
TGCAAAGCTTCTGGCTACATTTACTAGCTCCTGGATAAAACTGGTAAAGCAGGCCCT  
C K A S G Y I F T S S W I N W V K Q A P  
  
GGACAGGGTCTCGAGTGGATTGGAAGGATTGATCCTCCGATGGTGAAGTTCACTACAAT  
G Q G L E W I G R I D P S D G E V H Y N  
  
CAAGATTCAAGGACAAGGCTACACTACAGTCGACAATCCACCAATACAGCCTACATG  
O D F K D K A T L T V D K S T N T A Y M  
  
GAACTGAGCAGCCTGAGATCAGAGGACACTGCAGTCTATTACTGTGCAAGAGGATTCTG  
E L S S L R S E D T A V Y Y C A R G F L  
  
CCCTGGTTGCTGACTGGGCCAAGGAACCC~~T~~GGTCACAGTCTCCTCAG  
P W F A D W G Q G T L V T V S S

FIG. 2B

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		31	36	49
1	QVQLVQSGAELKKPGSSVKVSCKASGYIFT	sswin	WVRQAPGQGLEWIG	
huXAF	QVQLVQSGAELKKPGSSVKVSCKASGYIFT	sswin	WVKQAPGQGLEWIG	
huZAF	*	*	*	
DIFF	-----	-----	-----	-----
haF25	QVQLVQSGAEVKPGSSVKVSCKASGYIFT	sswin	WVRQAPGQGLEWIG	
DIFF	-----	-----	-----	-----
		50	67	99
	huXAF ridpsdgevhynqdfkd	KATLTVDKSTNTAYMELSSLRSEDTAVYYCAR	gf1pwfad	WGQGTLVTT
	huZAF ridpsdgevhynqdfkd	KATLTVDKSTNTAYMELSSLRSEDTAVYYCAR	gf1pwfad	WGQGTLVTT
	DIFF	-----	-----	-----
	haF25 ridpsdgevhynqdfkd	KATLTVDKSTNTAYMELSSLRSEDTAVYYCAR	gf1pwfad	WGQGTLVTT
	DIFF XXXXXXXXXXXX	* * - * - *	XXXXXX	XXXXXXX

FIG. 3

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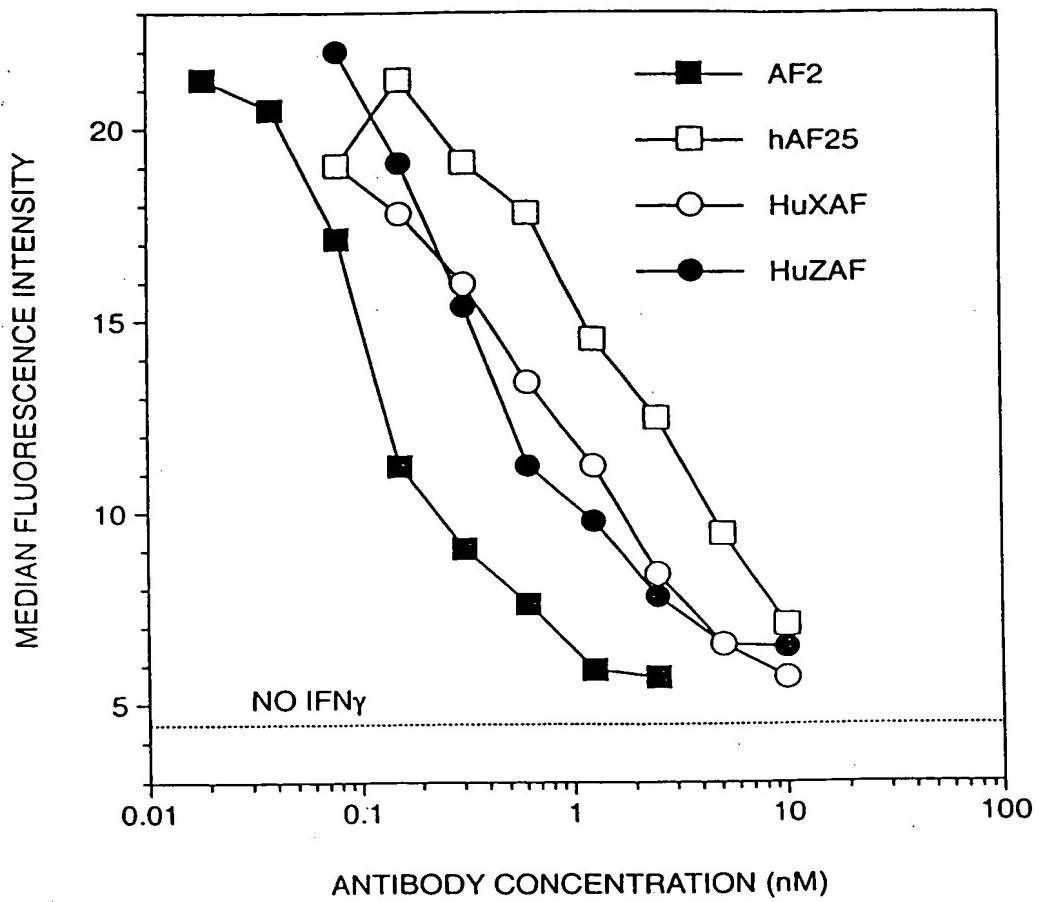


FIG. 4